CONSOLIDATED INFORMATION TECHNOLOGY SERVICES TASK ASSIGNMENT (TA)

1. **TITLE:** (D318) Synthetic Vision System - Spacecraft

   TA No: RDE002-Rev12

   Task Area Monitor: **Alternate Task Area Monitor:**   None
   NASA POC: None   **Software Control Class:**   Low Control
   Type of Task: Non-Recurring Task

2. **BACKGROUND**

   The Synthetic Vision Systems (SVS) Project of the NASA Aviation Safety Program is developing technologies that will eliminate low visibility conditions as a casual factor in civil aircraft accidents, as well as replicate the operational benefits of flight operations in a bright, clear, sunny day, regardless of outside weather conditions. CVI is researching SVS as applicable to future spacecraft.

3. **OBJECTIVE**

   The Contractor shall provide support to the SVS-GA Element through development of terrain databases and corresponding 3D models necessary for the different SVS-GA experiments; development of symbology for advanced aircraft displays; development of interfaces between various software and systems; and supporting simulation and flight test operations. The Contractor shall develop software for supporting the SVS-GA experiments (simulation and flight) and shall provide improvements and enhancements to the software as requested by the researchers which includes the anticipated cooperative research between SVS-GA and RIPS. The LaRC manager responsible for a particular project and the Contractor personnel assigned to that project shall work cooperatively and iteratively, as required, to ensure fulfillment of the SVS-GA mission/task objectives from detailed software task requirements (including software quality and schedule) as specified in the appropriate Software Requirements Document (SRD) for that particular project.

4. **GENERAL IT SUPPORT SERVICES**

   Maintenance of Software Developed By or For LaRC:
   The contractor shall provide general software maintenance on the software that the contractor has delivered under previous contracts and software that is being developed and delivered under this current TA.

   General IT Support Services Performance Metrics

Performance Standard: The applications software to which these services apply is fully operational and kept up-to-date with no significant disruption in capability.

Performance Metrics:

Exceeds: "Meets" and improvements are recommended and adopted; or users rate help in the use of applications very good to excellent. Transfer of requirements to the support team are complete and well documented. Contractor proactively supports requirement definition phase.

Meets: The inventory, including status, of application software is current and accurate. Upgrades are installed and fully operational within 5 days of receipt (or approval, if later) with no loss of data. Users rate operation and help in use of the applications satisfactory.

Fails: Any of the requirements of this subsection (a through h) are not satisfied. Users rate operation and help in use of the applications less than satisfactory.

Performance Standard: Documentation covering the use of application software covered by this requirement is complete, understandable, and up-to-date.

Performance Metrics:

Exceeds: Documentation is error free, complete and up-to-date. Significant improvements have been made in the clarity of documentation or documentation is proactively sought from all sources.

Meets: Documentation is complete with only minor errors noted

Fails: One or more required documentation components are not available or errors are noted that could compromise the operation or integrity of the applications.

5. SYSTEM AND APPLICATION DEVELOPMENT SERVICES

6. WORK-AREA SPECIFIC SERVICES

None required.

7. Exhibit A

None required.

8. SPECIAL SECURITY REQUIREMENTS

None required.

9. SOFTWARE ENGINEERING PROCESS REQUIREMENTS

None required.

10. JOINT REVIEW SCHEDULE

The contractor shall attend the weekly Crew Vehicle Interface (CVI) tag-up meetings.

11. PERIOD OF PERFORMANCE

This TA is effective from 06/01/01 to 04/27/09

12. TECHNICAL PERFORMANCE RATING

In evaluating Technical Performance, quality and timeliness shall be rated as follows:

Quality: 50%   Timeliness: 50%

The CONITS team met all requirements during the period of performance. Support for SVS Equivalent Safety test was outstanding. Several new methods for developed and employed for this flight test that greatly facilitated test conduct and subsequent analysis of the data.

Quality: 50%   Timeliness: 50%

13. RESPONSE REQUIREMENTS

Within two weeks from the receipt of this task assignment, submit to the Contracting Officer's Representative, an original and two copies of a Task Plan. This Task Plan shall address the contractor's lead personnel; specific work plans; and the associated estimated labor hours, cost and schedule. The cost should be reported and labor cost plus overhead cost. Include a signature block for concurrence by the Contract Manager and approval by the Contracting Officer's Representative.

14. FUNDING INFORMATION

Funding has not been entered for this TA.

15. MILESTONES

None required.

16. DELIVERABLES

None required.

17. FILE ATTACHMENTS

None.